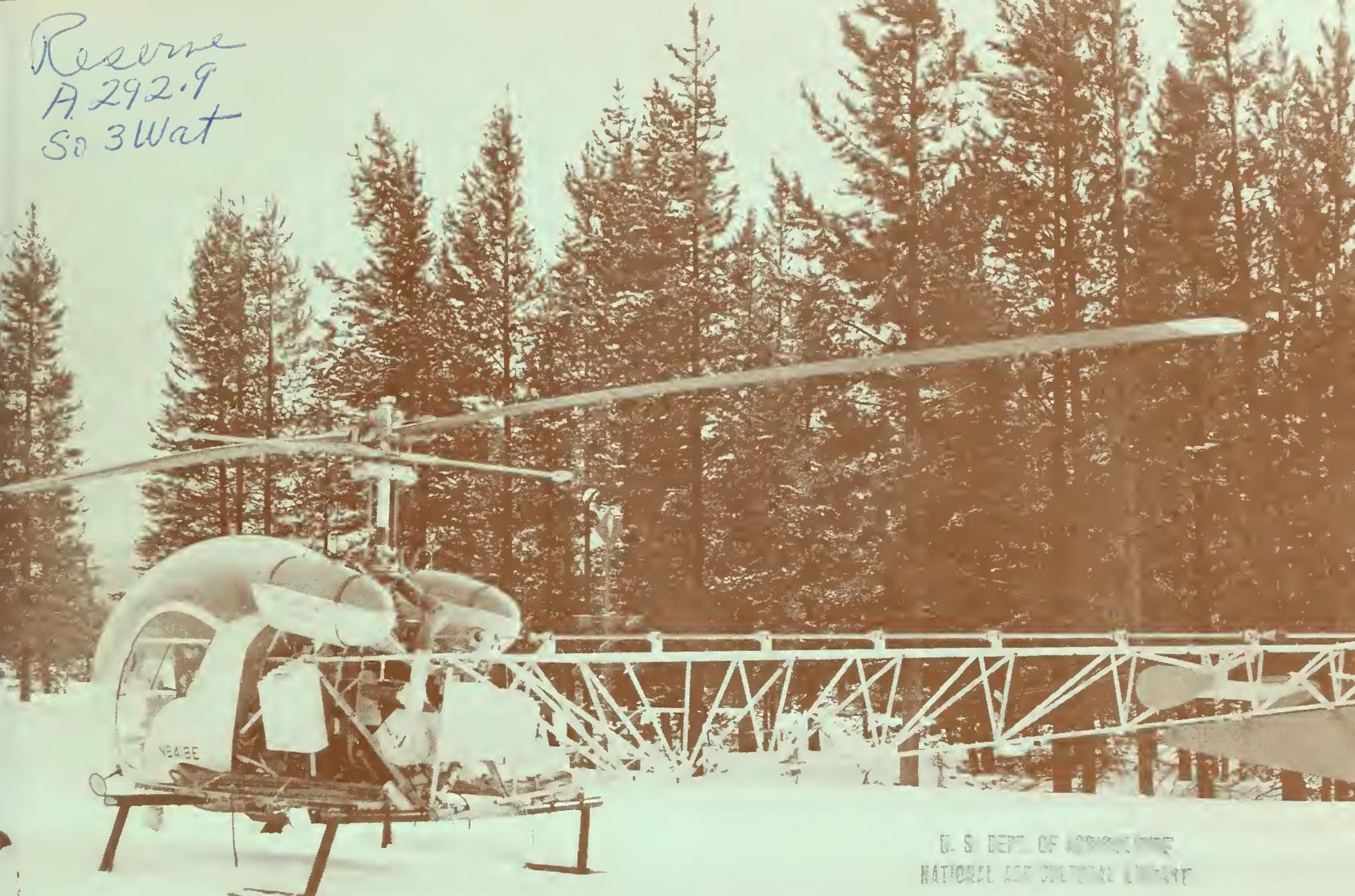


Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

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U. S. DEPT. OF AGRICULTURE
NATIONAL AGRO-FORESTIC SERVICE

MAR 1 1965

CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
IDAHO

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
IDAHO STATE RECLAMATION ENGINEER

Data included in this report were obtained by the agency named above in cooperation with the Comptroller of Water Rights of British Columbia, and Federal, State and private organizations listed on the last page of this report.

AS OF
FEB. 1, 1965

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from advance estimates of the streamflow.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, up to 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

Streamflow forecasts are obtained by a comparison of total or maximum snow accumulation, as measured by snow water equivalent, to the subsequent spring and summer or snowmelt season runoff over a period of years. The snow water equivalent measured in selected snow courses provides most of the index to the streamflow forecast for the following season. More accurate forecasts are usually obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast procedure. Early season forecasts assume average climatic conditions through the snowmelt season.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions. Soil Conservation Service Reports may be secured from Soil Conservation Service, 511 N.W. Broadway - Room 507, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
WESTERN UNITED STATES	MONTHLY (FEB.-MAY)	PORTLAND, OREGON	ALL COOPERATORS
BASIC DATA SUMMARY	OCTOBER 1	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN. 15 - APR. 1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (JAN.-JUNE)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
MONTANA	MONTHLY (JAN.-JUNE)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
NEVADA	MONTHLY (JAN.-MAY)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-JUNE)	PORTLAND, OREGON	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH	MONTHLY (JAN.-JUNE)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-JUNE)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	WATER RESOURCES SERVICE, DEPT. OF LANDS, FOREST AND WATER RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.

**WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
IDAHO**

Report prepared by

MORLAN W. NELSON Snow Survey Supervisor

and

J. ALDEN WILSON Asst. Snow Survey Supervisor

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
P.O. BOX 38, BOISE, IDAHO 83701

Issued by

LEE T. MORGAN
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

CARL E. TAPPAN
STATE RECLAMATION ENGINEER
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR FEBRUARY 1, 1965

In the fall of 1964, heavy rains and early snowfall occurred throughout the southern half of Idaho. The pattern and intensity of storms has continued through to the first of February. The fall rains and snow melt that occurred at high elevations during the latter part of December has created runoff channels and soil moisture conditions that will allow speedy and almost total runoff of melting snow or future rainfall. The valley and foothill elevation snow cover is unusually heavy and is underlain by saturated soils on many rivers.

The snowfall in the mountainous areas of southern Idaho has broken records on many courses as of February 1. The amount of water in the snow is unusually high because rainfall occurred at elevations up to over 10,000 feet. Some of this rain came in the form of sleet and has remained as an ice layer in the snow pack. The density of the snow, because of the warm temperatures and rainfall is similar to March or April measurements. On practically all courses, the snow at the surface is so hard that one can walk over it without skis.

In northern Idaho and Canada, the snow pack is only slightly above normal, and snowfall in general has not been as intense as in the southern half of the state.

Only once in a fifty to one hundred year period does a combination of natural phenomena produce such a tremendous volume of water in storage on our watersheds. The volumes represented in the snow pack on our mountains at this time are so heavy that the warmest and driest spring of experience would produce damaging volumes of water on many rivers. A continuation of the storm patterns that have been established so far this year would pose problems never before experienced in Idaho. The snowfall in the next two months is the key to the degree of damage that can result from the natural phenomena that has occurred this season.

Forecast factors which include an evaluation of snowfall to date, soil moisture conditions, and expected precipitation for the remaining of the season indicate record-breaking streamflow is in prospect for this spring.

The low elevation snow pack apparent throughout the state is technically highly undesirable because the first few warm days, whenever they occur, will result in heavy streamflow at that time. This runoff will be followed by even heavier flows coming from melting snow in the higher elevations which will extend well into the summer. The river basins which already have critically high snow cover are: The Little and Big Lost Rivers, the Big and Little Wood Rivers and the Boise River.

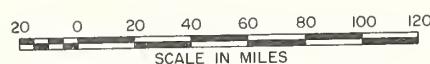
Special measurements are being planned during the middle of February and March to follow any change that may occur in the snow pack. Normally two-thirds of the snow cover has accumulated by February 1. This year, however, many snow courses have far more than the total year's average accumulation already.

SNOW WATER DEPTHS

As percent of 1948-62 15 year average

FEBRUARY 1, 1965

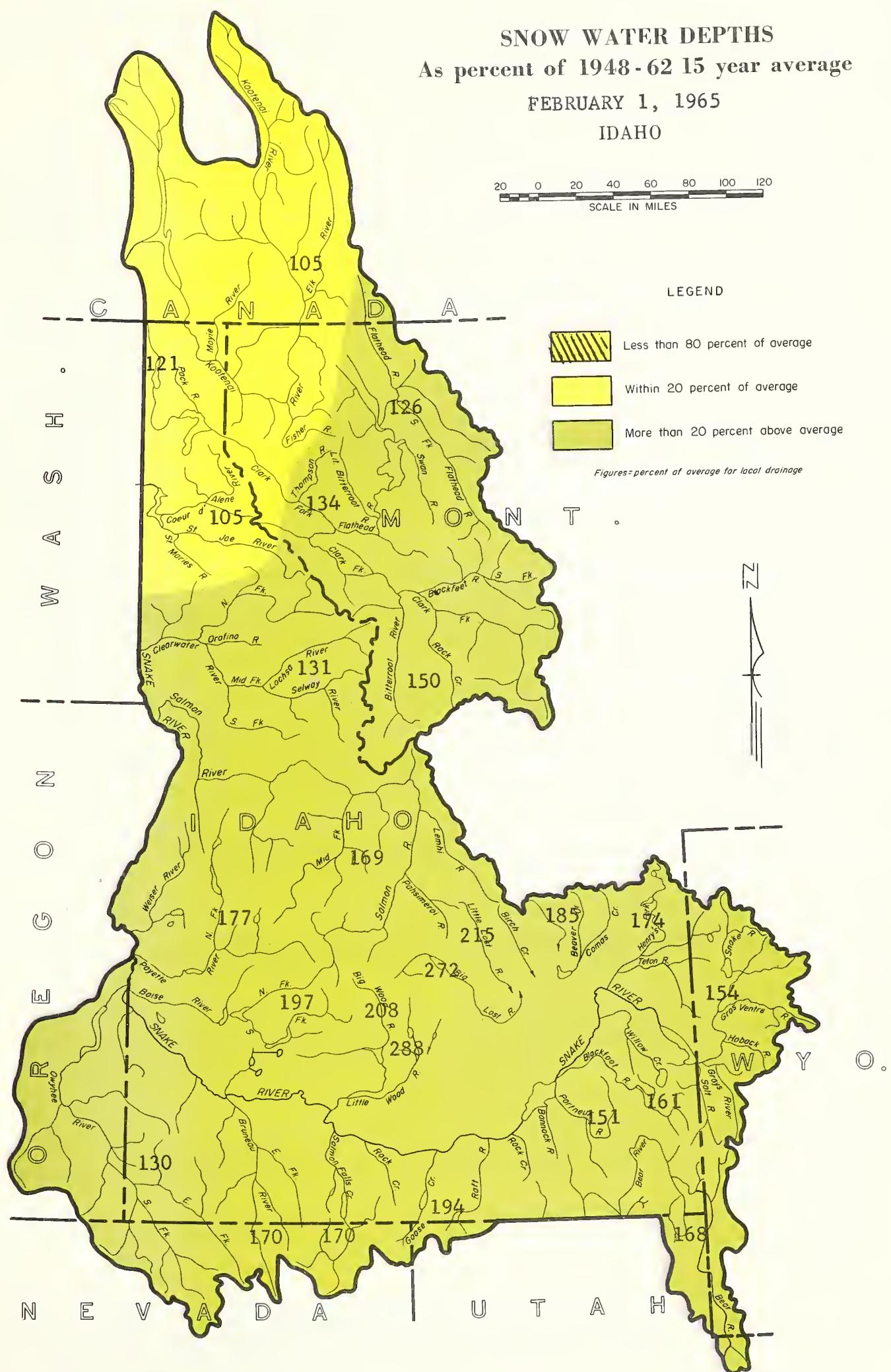
IDAHO



LEGEND

-  Less than 80 percent of average
 -  Within 20 percent of average
 -  More than 20 percent above average

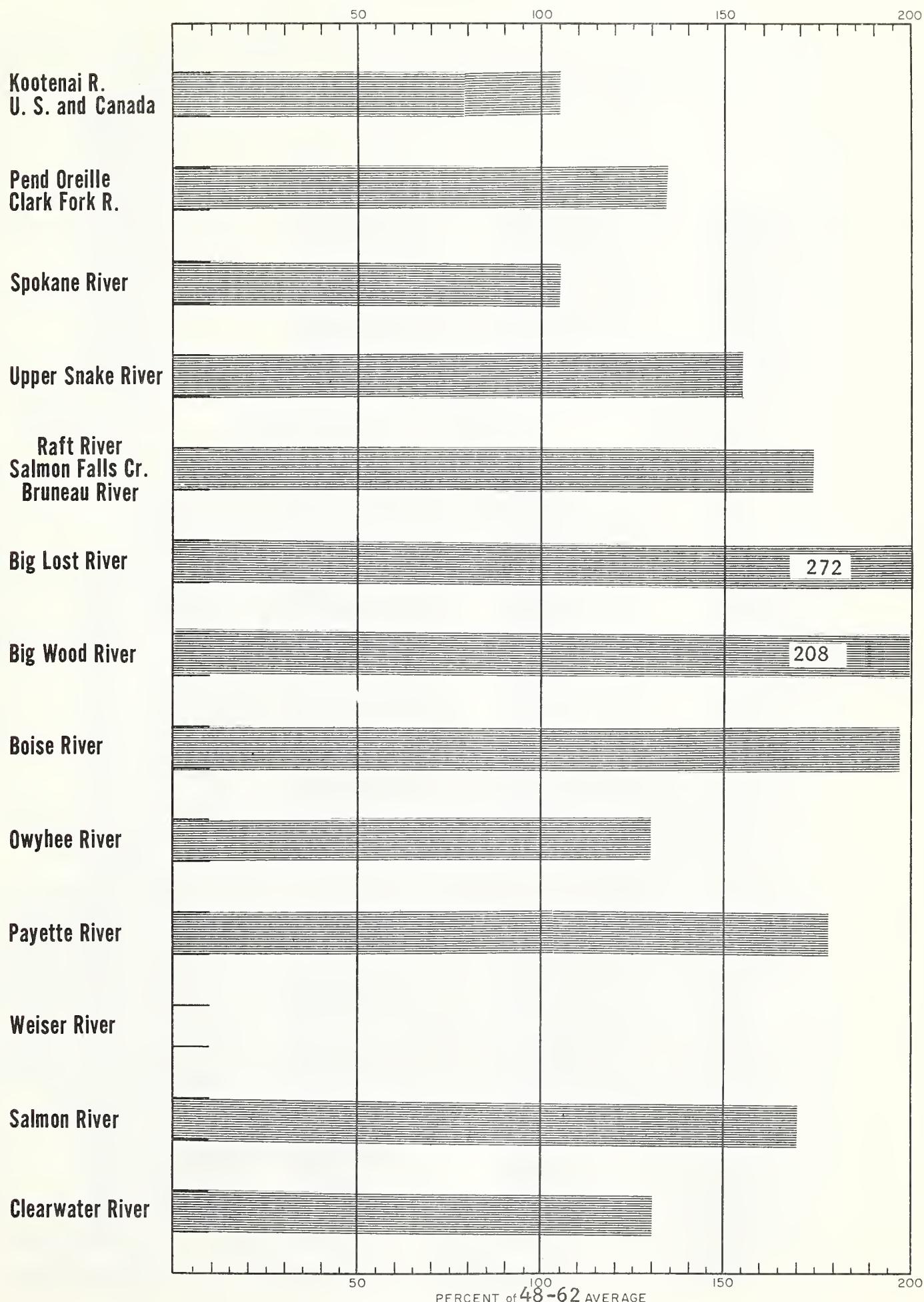
Figures=percent of average for local drainage



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1948-62 AVERAGE
<u>UPPER COLUMBIA BASIN</u>			
Kootenai River	9	120	105
Flathead River	5	153	126
Clark Fork River	12	133	134
Bitterroot River	2	133	150
Priest River	2-3	113	121
Spokane River	1-6	111	105
<u>SNAKE BASIN</u>			
Mud Lake Drainages	2-4	238	185
Upper Snake River	19	170	154
Henry's Fork River	4	191	174
Teton River	2-4	141	130
Blackfoot River	3	160	161
Portneuf River	3	141	151
Raft River - Goose Creek	2-7	172	194
Salmon Falls Creek	8-10	132	170
Bruneau River	4	154	170
Little Lost River	4-5	173	215
Big Lost River	1-8	211	272
Big Wood River	7	207	208
Little Wood River	3-4	229	288
Boise River	11-19	167	197
Owyhee River - Nevada and Idaho	10-18	99	130
Payette River	10-12	188	177
Weiser River	3	200	--
Salmon River	10-22	204	169
Lemhi River	6	230	--
Clearwater River	6-17	129	131
Palouse River	5	85	126
<u>GREAT BASIN</u>			
Upper Bear River	16	190	168
Montpelier Creek	2	193	--
Mink Creek	4	187	165
Cub River	2	138	136
Malad River	1-2	140	183

SNOW WATER DEPTHS
BY DRAINAGE
Compared To The 1948-62 15 Yr. Average
Snow Cover as of Approximately

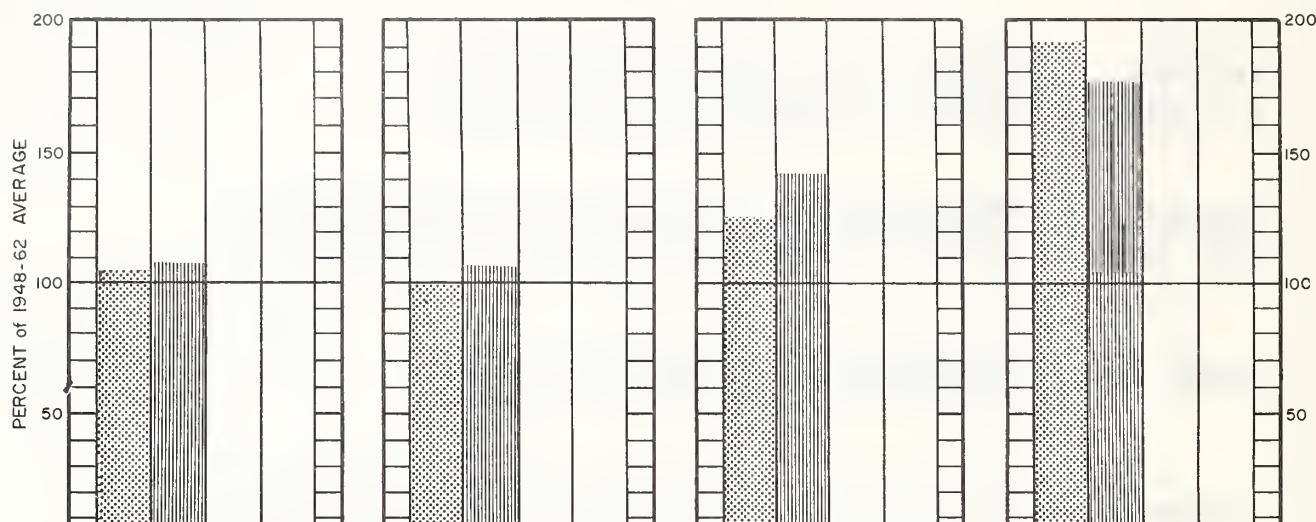


SNOW WATER DEPTHS ACCUMULATION

For Selected Snow Courses

As Compared To 1948-62 15Yr. Average

FEBRUARY 1, 1965

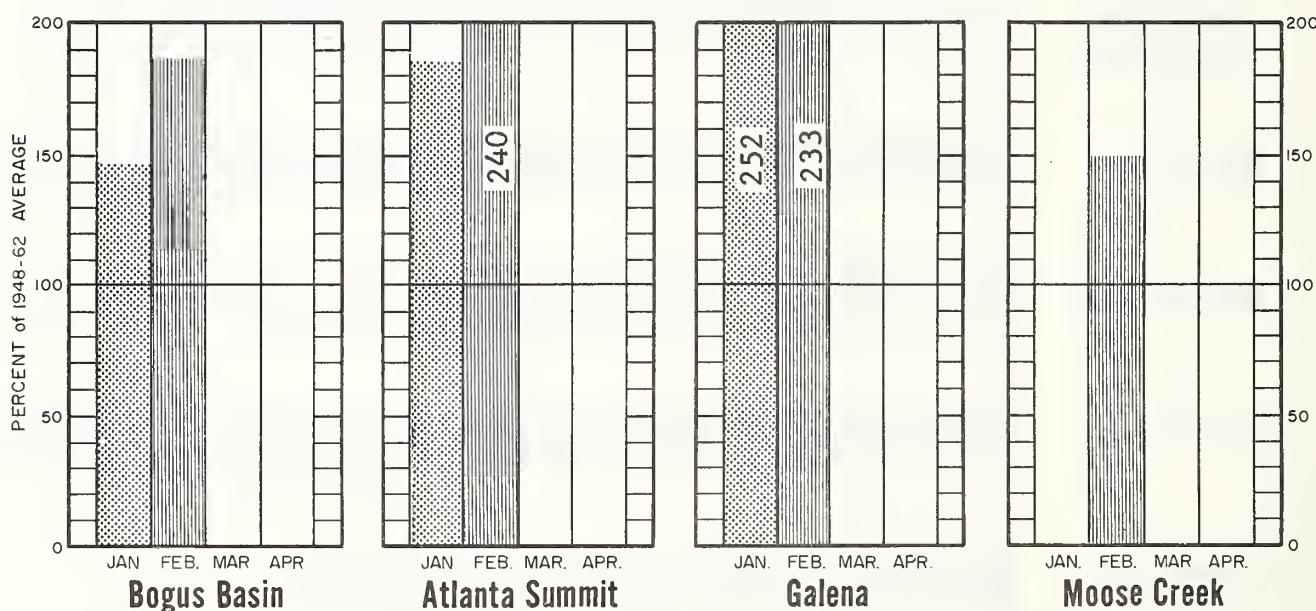


Benton Spring

Lookout

Pierce Ranger Sta.

Big Creek Summit

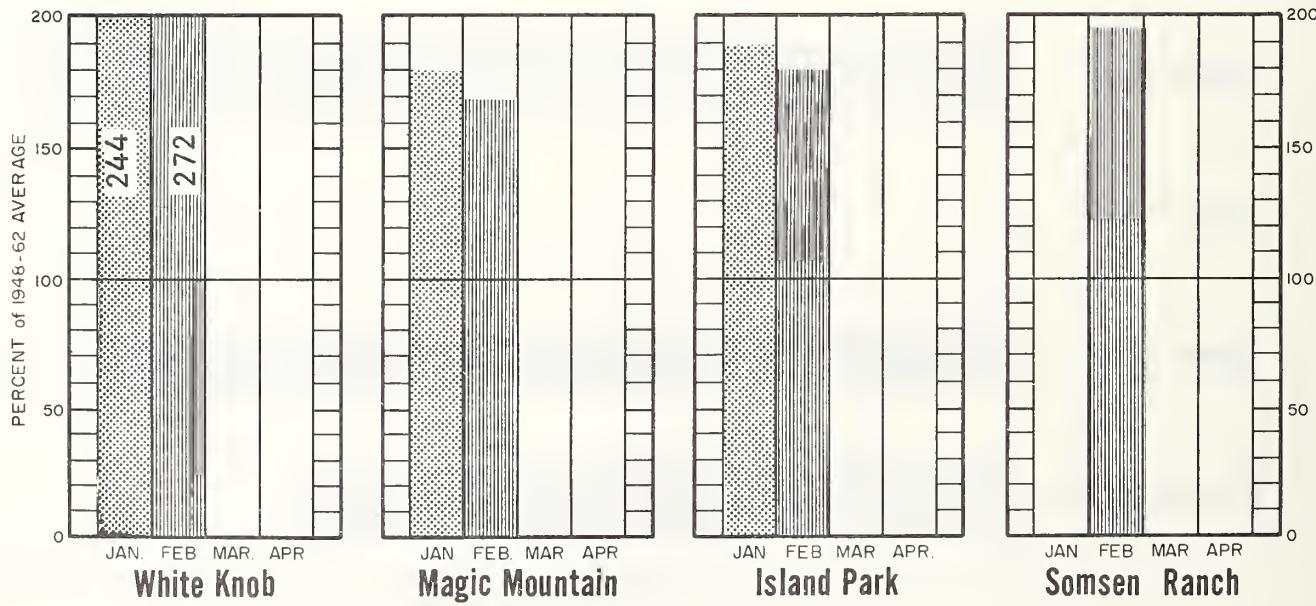


Bogus Basin

Atlanta Summit

Galena

Moose Creek



White Knob

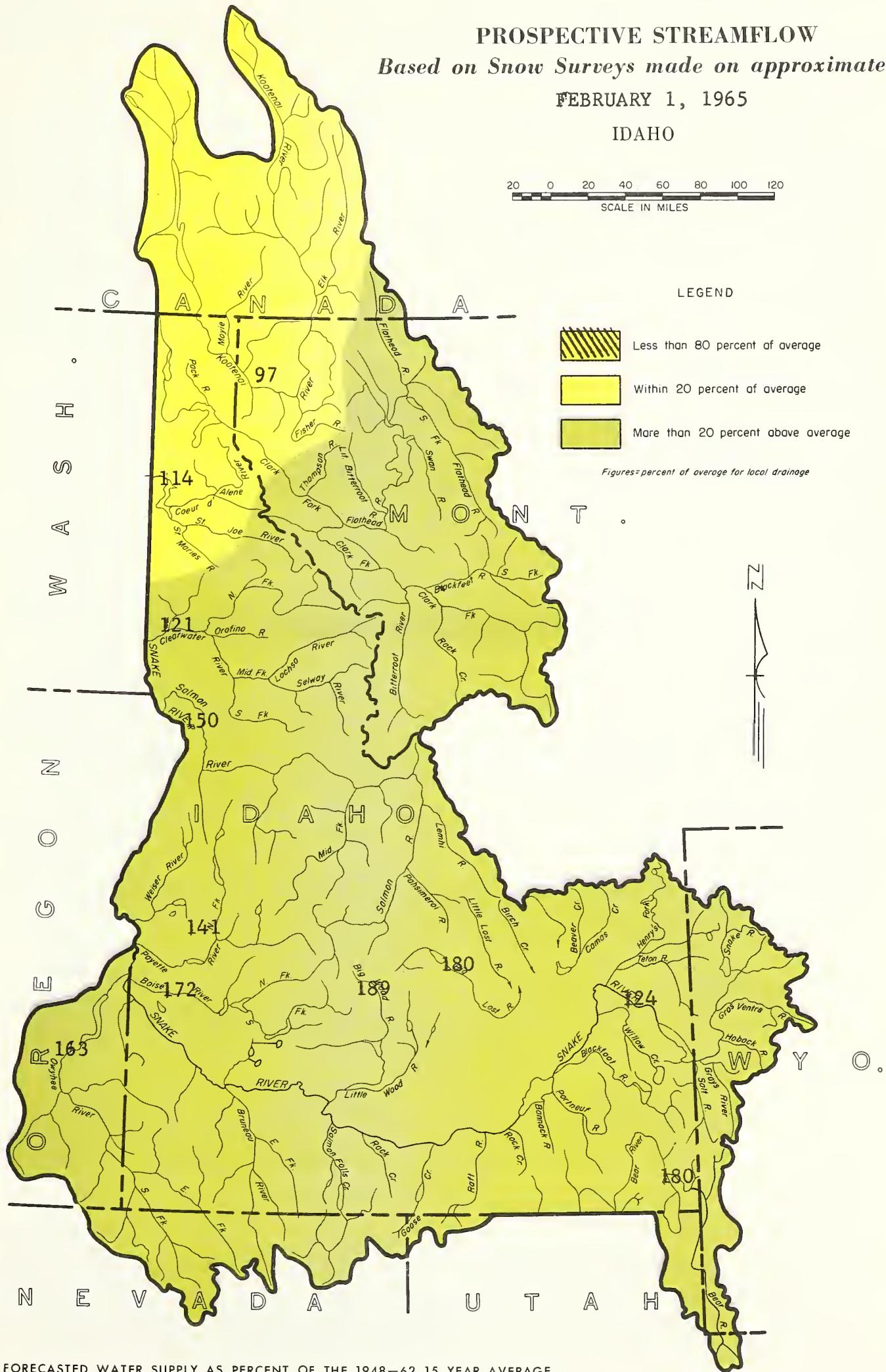
Magic Mountain

Island Park

Somsen Ranch

PROSPECTIVE STREAMFLOW
Based on Snow Surveys made on approximately
FEBRUARY 1, 1965
IDAHO

20 0 20 40 60 80 100 120
 SCALE IN MILES



FORECASTED WATER SUPPLY AS PERCENT OF THE 1948-62 15 YEAR AVERAGE

STREAMFLOW FORECASTS^c(1,000 Ac. Ft.)

STREAM and/or FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
------------------------------	-----------------------	-----------------	-----------	----------------------	---------------------------------------

KOOTENAI RIVER

Leonia	(at)	9050	Apr-Sep	8368	9327	97
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SPOKANE RIVER

Post Falls <u>1/</u>	(at)	3900	Apr-Sep	3000	3413	114
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SNAKE RIVER

Heise <u>2/</u>	(nr)	4800	Apr-Sep	3800	3868	124
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BIG LOST RIVER

Mackay <u>3/</u>	(nr)	265	Apr-Sep	180	147	180
------------------	------	-----	---------	-----	-----	-----

BIG WOOD RIVER

Hailey	(at)	500	Apr-Sep	275	265	189
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BOISE RIVER

Boise <u>4/</u>	(nr)	2800	Apr-Sep	1650	1632	172
-----------------	------	------	---------	------	------	-----

PAYETTE RIVER

Horseshoe Bend <u>5/</u>	(nr)	2800	Apr-Sep	1970	1988	141
--------------------------	------	------	---------	------	------	-----

OWYHEE RIVER

Lake Owyhee net inflow <u>6/</u>		620	Apr-Sep	--	381	163
-------------------------------------	--	-----	---------	----	-----	-----

SALMON RIVER

Whitebird	(at)	10400	Apr-Sep	7000	6949	150
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CLEARWATER RIVER

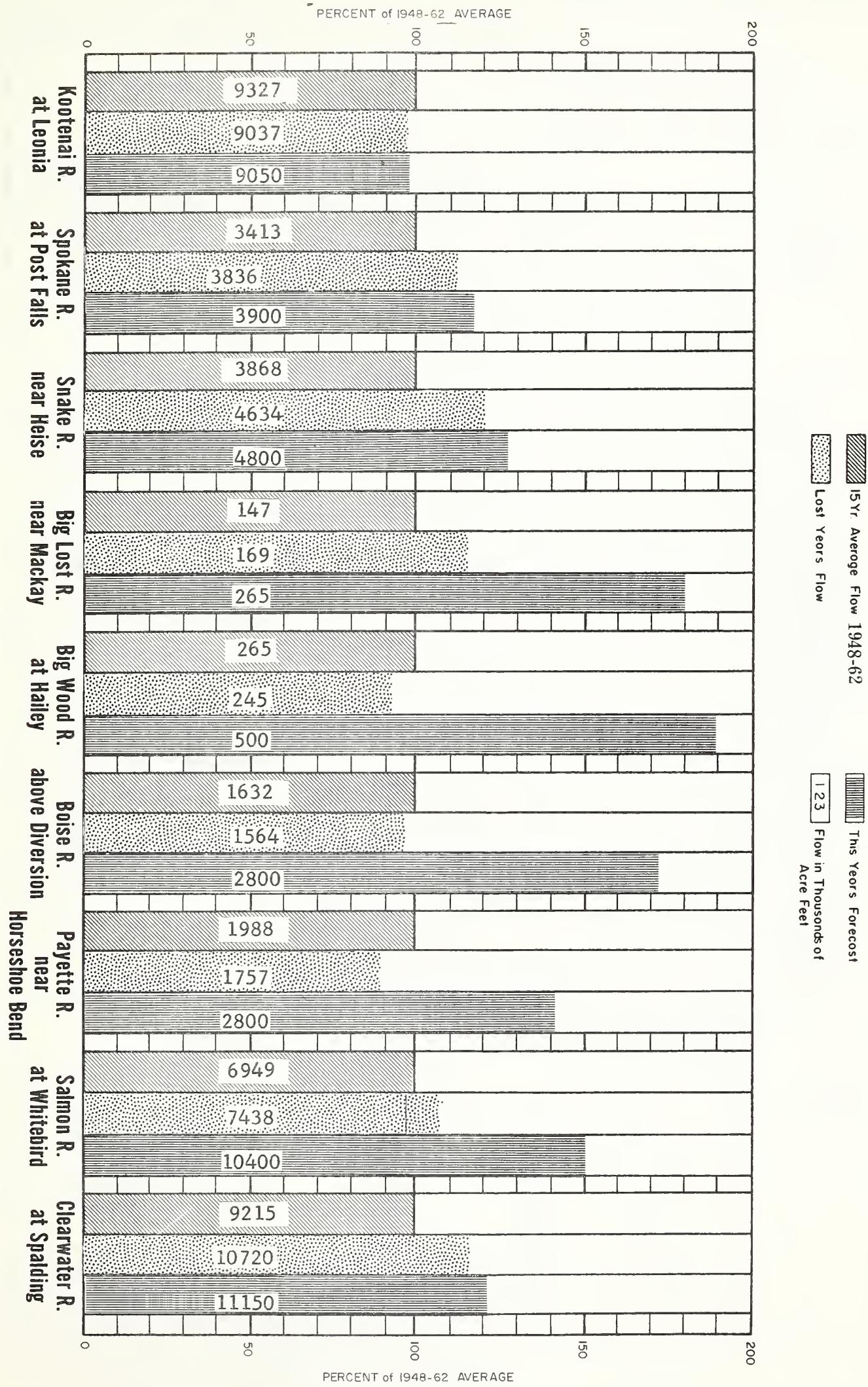
Spalding	(at)	11150	Apr-Sep	8700	9215	121
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(c) Assuming normal meteorological conditions.

1/ Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie canals. 2/ Corrected for storage in Jackson Lake and Palisades. 3/ Observed flow corrected for storage in Mackay Reservoir and diversion in Sharp Ditch. 4/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 5/ Corrected for storage in Cascade and Deadwood Reservoirs. 6/ From U.S.B.R. records of inflow.

STREAMFLOW FORECASTS (April through September period)

Based on Snow Surveys made on approximately



RESERVOIR STORAGE (1,000 Ac. Ft.)

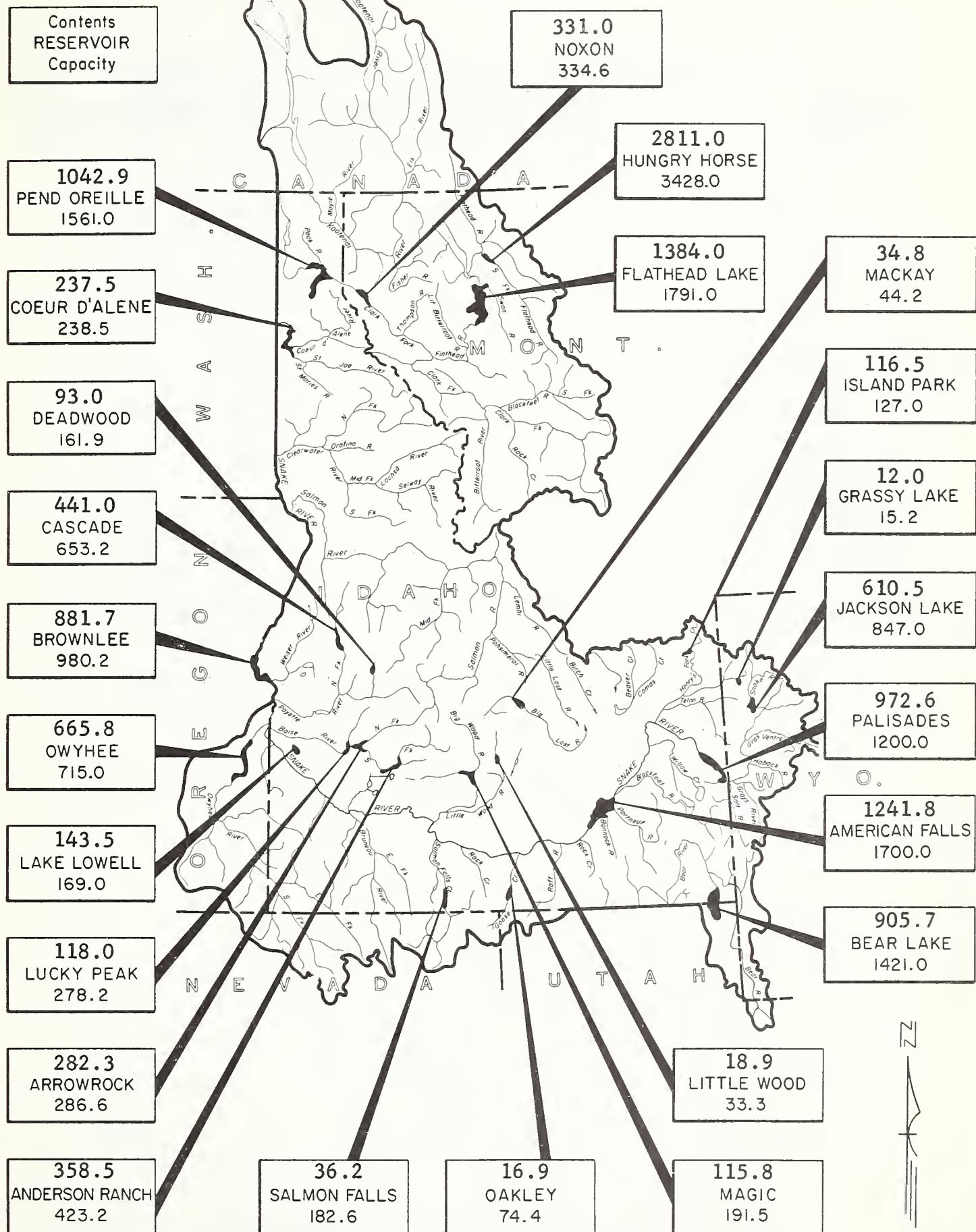
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1948-62 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	2811.0	2450.0	--
Flathead	1791.0	1384.0	1591.0	1042.9
Pend Oreille	1561.0	1042.9	612.6	728.1
Noxon	334.6	331.0	297.9	--
<u>Spokane</u>				
Coeur d'Alene	238.5	237.5	91.6	130.8
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	610.5	632.8	417.6
Palisades	1200.0	972.6	874.6	--
American Falls	1700.0	1241.8	1102.0	1301.0
Island Park	127.0	116.5	88.0	98.6
Grassy Lake	15.2	12.0	8.2	11.6
Brownlee	980.2	881.7	335.2	--
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	16.9	10.6	12.5
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	36.2	29.3	17.8
<u>Big Lost</u>				
Mackay	44.2	34.8	37.6	28.5
<u>Big Wood</u>				
Magic	191.5	115.8	106.8	97.4
<u>Little Wood</u>				
Little Wood	30.0	18.9	18.4	--
<u>Boise</u>				
Anderson Ranch	423.2	358.5	261.2	163.4
Arrowrock	286.6	282.3	277.2	196.1
Lucky Peak	278.2	118.0	82.3	--
Lake Lowell (Deer Flat)	169.0	143.5	119.8	89.4
<u>Owyhee</u>				
Owyhee	715.0	665.8	286.0	752.4
<u>Payette</u>				
Cascade	653.2	441.0	328.4	--
Deadwood	161.9	93.0	85.3	65.7
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	905.7	709.3	883.7

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

FEBRUARY 1, 1965

50 0 50 100 150
SCALE IN MILES



VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Fall			Winter	
	Sep.-Oct.-Nov. 1964		<u>Observed</u>	Dec. 1964-Jan. 1965	
	<u>Departure</u>	<u>2/</u>		<u>Observed</u>	<u>Departure</u>
Kootenai, Canada & U. S.	7.01	+0.09		8.18	+1.39
Flathead	5.41	-0.18		7.87	+3.46
Clark Fork	1.59	-1.26		4.83	+2.89
Pend Oreille-Spokane	7.26	-1.68		11.94	+3.39
Upper Snake	3.90	-0.80		9.20	+4.56
Snake River Plain	2.28	+0.29		4.05	+2.06
Salmon-Payette-Boise	3.75	-0.66		12.35	+7.25
Clearwater	6.39	-0.65		11.07	+5.24
Southeastern Oregon	2.26	+0.06		5.25	+2.80

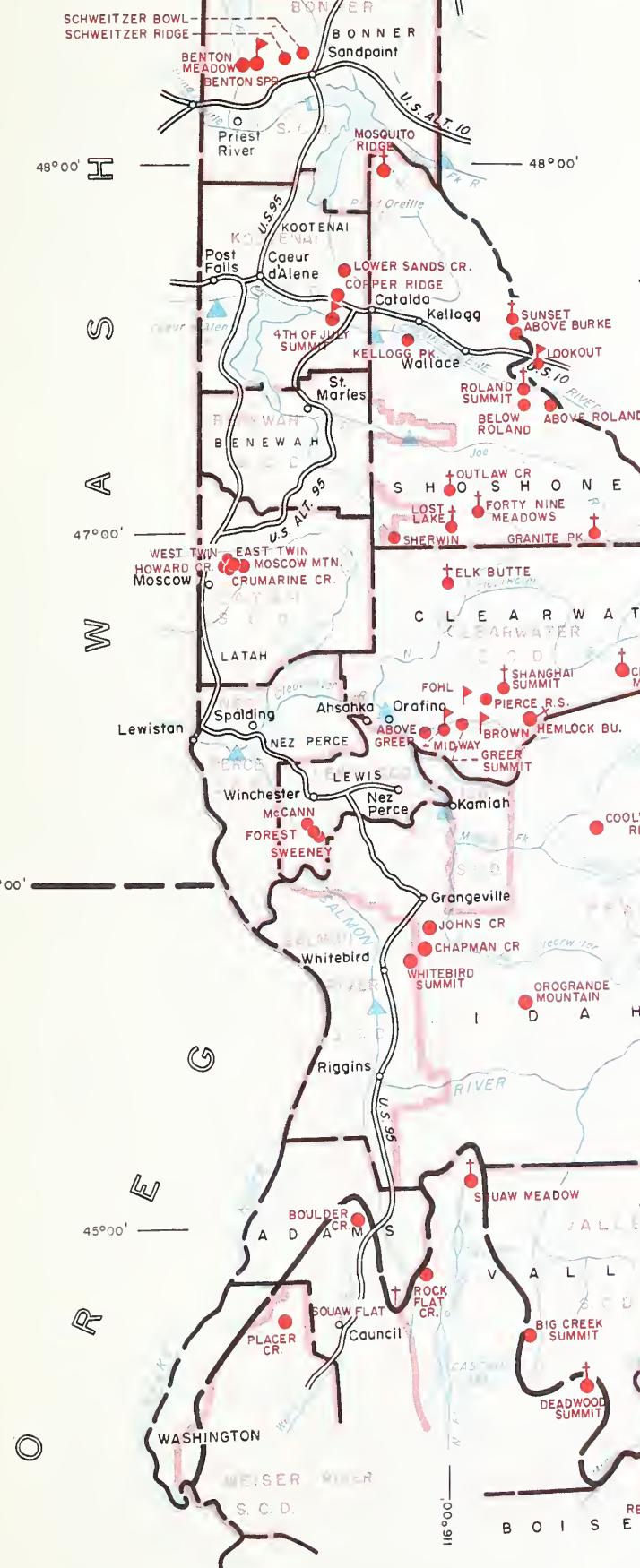
1/ Preliminary analysis by U. S. Weather Bureau from data furnished by Meteorological Service of Canada and U. S. Weather Bureau.

2/ Departure from 15-year (1948-62) drainage division average.

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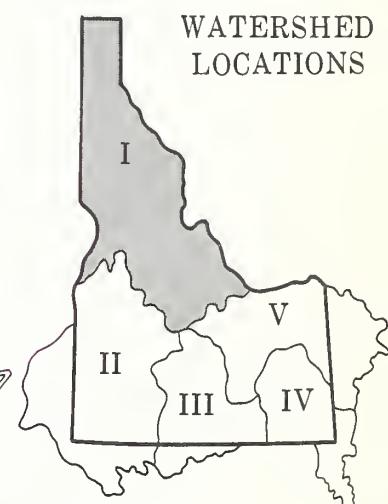
KOOTENAI, PEND OREILLE, SPOKANE, PALOUSE, CLEARWATER, SALMON WATERSHEDS



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- - - County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- 🚩 Soil Moisture Station

WATERSHED LOCATIONS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP. RGE. ELEV.			NO.	STATE	NAME	SEC.	TWP. RGE. ELEV.								
				LAT.	OR ANO	LONG.					LAT.	OR ANO	LONG.						
KOOTENAI RIVER																			
16A1	I	Smith Creek	29	64N	3W	4800	16D2	I	Chapman Creek	16	29N	2E	4215						
PRIEST RIVER																			
16A2	I	Benton Meadow	27	53N	4W	2344	13E17A	I	Copes Camp	36	18N	22E	7500						
16A3M	I	Benton Spring	30	58N	3W	4900	13D17a	I	Gertson Creek	22	22N	23E	8050						
16A6	I	Schweitzer Bowl	20	2W	53N	4500	13D2	M	Gibbons Pass	4	2S	19W	7100						
16A5	I	Schweitzer Ridge	19	2W	58N	6100	13D9	M	Gold Stone	11	8S	16W	8100						
SPOKANE RIVER																			
15B8	I	Above Burke	11	48N	5E	4100	13B20A	I	Hall Creek	1	16N	27E	7560						
15B7	I	Above Roland	35	47N	6E	4350	16D3	I	Johns Creek	9	29N	2E	3805						
15B6	I	Below Roland	34	47N	6E	3770	13E1	M	Lemhi Pass	9	10S	15W	7480						
16B2	I	Copper Ridge	6 & 7	50N	1W	4800	13E13m	I	Lower Big Flat	31	12N	24E	6500						
16B3M	I	Fourth of July Summit	6	49N	1W	3100	13E10m	I	Mahogany Bar	10	10N	23E	7900						
15B13A	I	Granite Peak	3	42N	8E	6000	13E18AM	I	Meadow Lake	24	13N	26E	9100						
16B5A	I	Kellogg Peak	19	48N	3E	5560	14E1MA	I	Mill Creek Summit	8	13N	17E	8370						
15B2M	I	Lookout	4	47N	6E	5250	13D16	I	Moose Creek	22 & 26	27N	21E	6200						
16B1	I	Lower Sands Creek	32	51N	1W	3400	14E4	I	Morgan Creek	32	18N	19E	7580						
15B4A	I	Medicine Ridge	24	43N	10E	6150	14E2	I	Redfish Lake	3	9N	13E	6600						
16A1A	I	Mosquito Ridge	5	54N	2E	5110	13E16A	I	Schwartz Lake	34	18N	22E	8500						
15B12	I	Outlaw Creek	19	44N	5E	3750	13E2	M	Trail Creek	15	10S	15W	7090						
15B5A	I	Roland Summit	26	47N	6E	5200	14E3a	I	Twin Peaks	28	15N	17E	9190						
16C1	I	Sherwin	28 & 33	42N	1E	3200	14F4A	I	Vienna Mine	32	6N	14E	8900						
15B9A	I	Sunset	28	49N	5E	5600	13E12m	I	West Big Flat	35	12N	23E	6550						
BIG LOST RIVER																			
14F15a	I	North Fork Meadow	20	7N	18E	8150	16D5	I	Whitebird Summit	17	29N	2E	4390						
BIG WOOD RIVER																			
14F12M	I	Galena Summit	33	7N	15E	8795	14D4	I	Williams Creek Summit	34	21N	20E	7800						
PAYETTE RIVER																			
15E2M	I	Big Creek Summit	24	15N	5E	6608	CLEARWATER RIVER												
15E4A	I	Deadwood Summit	23	14N	7E	7000	16C11	I	Above Greer	14	35N	2E	1240						
16E1	I	Rock Flat Summit	1	13N	2E	5200	16C14m	I	Brown	11	35N	3E	3100						
15D2A	I	Squaw Meadow	5	21N	4E	5800	15C3A	I	Cayuse Airstrip	4	38N	11E	3700						
WEISER RIVER																			
16D1	I	Boulder Creek	15	20N	1W	5700	15C7	I	Coolwater Mountain	32	33N	8E	6200						
16E5a	I	Squaw Flat	32	17N	2E	6230	15C9A	I	Crater Meadows	2	37N	9E	6100						
16E2	I	Placer Creek	15 & 16	17N	3W	6000	16C15A	I	Ely Butte	6	40N	3E	5550						
SALMON RIVER																			
13E19AM	I	Above Gilmore	13	13N	26E	8200	16C2A	I	Fish Lake Airstrip	35	35N	11E	5000						
13E21A	I	Aspen-Hall Pass	6	16N	28E	8110	15C8m	I	Fohl	16	36N	5E	3450						
13E11m	I	Big Flat	25	11N	23E	7050	16C9	I	Forest	1	32N	3W	4550						
13E8a	I	Borah	21	10N	23E	8250	15B3	I	Forty-nine Meadows	6	43N	5E	5000						
PALOUSE RIVER																			
16D6	I	Crumarine Creek	24				14D9A	I	Goat Lake	4	38N	13E	6600						
16C3	I	East Twin	13				16C13	I	Greer Summit	13	35N	2E	3000						
16C5	I	Howard Creek	14				16C6A	I	Hemlock Butte	12	36N	6E	5500						
16C2	I	Moscow Mountain	18				14D3	I	Kit Carson Pasture	4	27N	16E	5020						
16C4	I	Pierce Ranger Station	24				14C5	M	Lolo Pass	11	10N	24W	5230						
15C5	I	Powell Ranger Station	2				15B14A	I	Lost Lake	16	43N	4E	6000						
14C6	I	Shanghai Summit	33				16C8	I	McCann	25	33N	3W	4300						
14C4	I	Savage Pass	18				16C12M	I	Midway	14	35N	2E	2200						
15C4A	I	Sweeney	7				14D1	M	Nezperce Pass	25	1S	24W	6575						
16D10	I	West Twin	14				15D4	I	Orogrande Mountain	24	27N	6E	7800						
LEGEND																			
Numbering System (example)																			
10J7		SNOW COURSE ONLY.					16C6	I	Crumarine Creek	24	40N	5W	3500						
10J7P		SNOW COURSE AND PRECIPITATION GAGE.					16C3	I	East Twin	13	40N	5W	4000						
10J7M		SNOW COURSE AND SOIL MOISTURE STATION.					16C5	I	Howard Creek	14	40N	5W	3500						
10J7A		SNOW COURSE AND AERIAL MARKER.					16C2	I	Moscow Mountain	18	40N	4W	4800						
10J7MA		SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.					16C4	I	West Twin	14	40N	5W	4200						
10J7MP		SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.																	
10J7 m		SOIL MOISTURE STATION ONLY.																	
10J7 a		AERIAL MARKER ONLY.																	
10J7 p		STORAGE PRECIPITATION GAGE ONLY.																	

Numbering System (example)

- 10J7 SNOW COURSE ONLY.
- 10J7P SNOW COURSE AND PRECIPITATION GAGE.
- 10J7M SNOW COURSE AND SOIL MOISTURE STATION.
- 10J7A SNOW COURSE AND AERIAL MARKER.
- 10J7MA SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
- 10J7MP SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
- 10J7 m SOIL MOISTURE STATION ONLY.
- 10J7 a AERIAL MARKER ONLY.
- 10J7 p STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	AVERAGE b
						LAST YEAR	b

PEND OREILLE - PRIEST RIVER

Benton Meadow	16A2	2344	2/1	30	8.9	7.6	5.6
Benton Spring	16A3	4900	1/28	55	15.7	14.2	14.7
Schweitzer Bowl	16A6	4500	1/29	80	23.3	27.4	--
Schweitzer Ridge	16A5	6100	1/29	109	38.3	34.0	--

SPOKANE RIVER

Fourth of July Smt.	16B3	3100	1/28	37	8.9	10.9	--
Granite Peak (A)	15B13	6000	2/2	120	40.9	30.1	--
Lookout	15B2	5250	1/27	101	27.7	26.7	26.4
Medicine Ridge (A)	15B4	6150	2/2	136	46.4	35.3	--
Outlaw Creek (A)	15B12	3750	2/2	36	11.6	15.6	--
Sherwin	16C1	3200	1/29	40	12.4	14.1	--

CLEARWATER RIVER

Above Greer	16C11	1240	1/29	2	0.5	0.0	--
Buck Meadows (A)	15D5	5600	2/2	63	21.5	--	--
Cayuse Airstrip (A)	15C3	3700	2/2	45	14.4	10.1	8.0*
Crater Meadows (A)	15C9	6100	2/2	120	40.9	30.1	--
Elk Butte (A)	16C15	5550	2/2	101	34.4	30.3	--
Fish Lake Airstrip(A)	15C2	5000	2/2	105	35.8	27.7	27.1*
Forest	16C9	4550	1/27	28	8.0	6.5	6.0*
Forty-nine Meadows(A)	15B3	5000	2/2	82	28.0	26.6	--
Goat Lake (A)	14C9	6600	2/2	124	42.3	28.2	--
Granite Peak (A)	15B13	6000	2/2	120	40.9	30.1	--
Greer Summit	16C13	3000	1/29	9	2.7	3.1	--
Hemlock Butte	15C6	5500	1/31	135	46.0	38.2	--
Lost Lake (A)	15B14	6000	2/2	144	49.1	34.3	--
McCann	16C8	4300	1/27	22	5.8	4.8	6.5*
Medicine Ridge (A)	15B4	6150	2/2	136	46.4	35.3	--
Midway	16C12	2200	1/29	4	1.3	1.0	--
Mountain Meadows (A)	15D6	6300	2/2	84	28.6	--	--
Pierce Rgr. Sta.	15C5	3171	1/29	42	13.5	11.4	9.5*
Shanghai Summit (A)	15C4	4600	2/2	82	28.0	21.7	--
Sweeney	16C10	4435	1/27	21	5.9	5.0	6.5*

PALOUSE RIVER

Crumarine Creek	16C6	3500	1/31	25	8.3	11.5	5.8*
East Twin	16C3	4000	1/31	35	12.3	15.7	10.1*
Howard Creek	16C5	3500	1/30	18	6.3	8.7	3.6*
Moscow Mountain	16C2	4800	1/31	49	15.8	16.1	14.0*
West Twin	16C4	4200	1/30	34	10.5	10.5	8.8*

2
SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (inches)	AVERAGE <i>b</i>

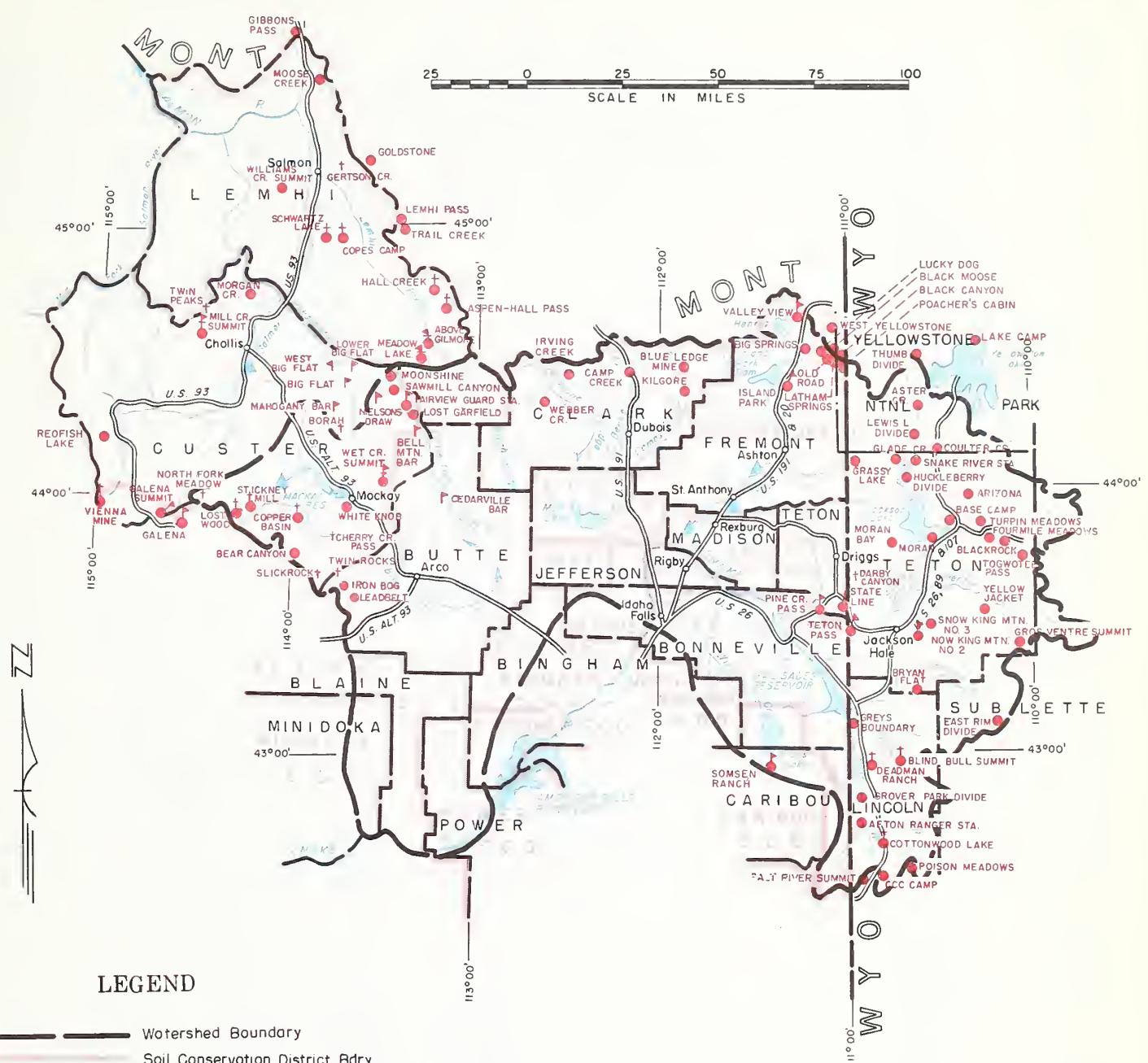
SALMON RIVER

Big Creek Summit	15E2	6600	2/1	121	42.1	21.5	22.6*
Borah (A)	13E8	8250	2/1	22	6.7	5.1	--
#Boulder Creek	16D1	5500	1/28	103	29.3	14.4	--
Chapman Creek	16D2	4215	1/29	17	4.6	4.4	3.3*
#Deadwood Summit (A)	15E4	7000	1/31	168	58.5	27.4	34.8*
#Galena Summit	14F12	8795	1/27	102	32.0	16.6	15.1*
#Gibbons Pass	13D2	7100	1/28	83	23.8	16.8	15.7*
Johns Creek	16D3	3805	1/29	11	3.4	2.5	2.9*
Mill Creek Summit (A)	14E1	8870	2/1	112	35.2	11.3	--
Moose Creek	13D16	6200	1/28	67	17.0	14.0	11.4*
Morgan Creek Summit	14E4	7580	1/29	77	22.6	8.5	--
#Rock Flat Summit	16E1	5200	1/27	74	19.6	12.4	12.6
#Squaw Flat (A)	16E5	6230	1/31	89	31.0	12.6	--
#Squaw Meadows (A)	15D2	5800	1/31	123	42.8	21.7	24.9*
Twin Peaks (A)	14E3	10300	2/1	106	33.3	10.5	--
Vienna Mine (A)	14F4	8900	1/31	128	40.2	19.9	--
Whitebird Summit	16D5	4390	1/29	30	7.9	6.6	6.0*

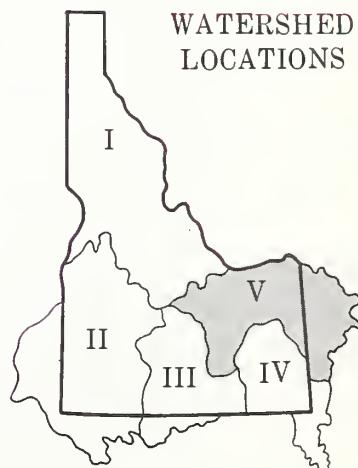
Lemhi River

Above Gilmore (A)	13E19	8200	2/1	59	16.1	6.0	--
Aspen-Hall Pass (A)	13E21	8110	2/1	45	12.3	8.0	--
Copes Camp (A)	13E17	7500	2/1	42	12.3	3.7	--
Gertson Creek (A)	13D17	8050	2/1	45	13.7	6.2	--
Hall Creek (A)	13E20	7560	2/1	21	5.7	3.8	--
Meadow Lake (A)	13E18	9100	2/1	87	28.9	12.0	--
Schwartz Lake (A)	13E16	8500	2/1	58	19.3	7.7	--

UPPER SNAKE, HENRY'S FORK, TETON, CAMAS - BEAVER CREEK, LITTLE LOST, BIG LOST, UPPER SALMON WATERSHEDS



WATERSHED LOCATIONS



INDEX to SNOW COURSES

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches) LAST YEAR	AVERAGE ^b

MEDICINE LODGE - CAMAS - BEAVER CREEKS

Camp Creek	12E3	6800	1/29	44	13.3	5.0	6.5
Irving Creek	12E4	7035	1/29	29	7.7	2.5	--
Kilgore	11E12	6200	1/28	39	10.6	6.0	6.4
Webber Creek	12E5	6700	1/27	31	7.7	3.0	--

HENRY'S FORK RIVER

Big Springs	11E9	6500	1/28	81	22.2	11.4	13.7
Grassy Lake	10E15	7230	1/28	103	32.8	19.7	22.3*
Island Park	11E10	6315	1/29	73	19.4	8.7	10.8
Valley View	11E8	6500	1/29	76	23.5	11.5	9.6

Teton River

Darby Canyon (A)	10F21	8250	1/26	62	16.3	13.3	--
Pine Creek Pass	11F2	6750	1/26	60	15.8	11.7	--
State Line	11F1	6400	1/27	48	13.0	9.8	9.8
Teton Pass	10F13	8500	1/27	92	28.7	17.7	22.4

LITTLE LOST RIVER

Fairview Guard Sta.	13E5	5850	1/28	25	5.4	5.2	3.5*
Lost-Garfield	13E3	5700	1/28	24	5.5	3.1	2.8*
Moonshine	13E6	7250	1/29	60	16.4	8.4	7.5*
Sawmill Canyon	13E4	6000	1/29	47	13.0	6.6	6.2*
Wet Creek Summit (A)	13E7	8175	2/1	62	16.9	--	6.6*

BIG LOST RIVER

Cherry Creek Pass (A)	13F13	8900	1/31	13	4.0	2.6	--
Copper Basin (A)	13F2	8000	1/31	55	17.3	8.0	--
Leadbelt	13F12	6800	2/2	51	15.5	6.1	--
Lost-Wood Divide (A)	14F3	8750	1/31	96	30.1	16.3	--
North Fork Meadow (A)	14F15	8150	1/31	59	18.5	8.9	--
Slickrock (A)	13F14	8640	1/31	93	29.2	12.5	--
Stickney Mill (A)	14F2	7500	1/31	40	12.7	5.4	--
White Knob	13F1	7700	1/27	42	12.8	6.6	4.7*

WILLOW-SAND CREEKS

Birch Creek		6800	1/26	39	12.3	--	--
Bone		6200	1/28	31	9.1	--	--
Taylor Mountain		6600	1/27	29	8.2	--	--
Ozone		5800	1/28	7	1.8	--	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated.

4

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	AVERAGE
						LAST YEAR	b

BLACKFOOT RIVER

Austin Bros. Ranch	11G3	6450	1/28	33	8.3	6.2	5.2*
China Hat	11G2	6300	1/29	21	5.4	5.0	4.9*
Slug Creek Divide	11G5	7225	2/2	58	19.1	10.1	--
Somson Ranch	11G1	7000	1/29	51	15.2	8.7	7.8*

PORTNEUF RIVER

Dempsey Creek	12G5	6280	1/28	39	10.0	7.2	7.2*
Mink Creek	12G1	6300	1/30	40	14.0	11.0	10.0*
Pebble Creek	12G2	6550	1/28	51	15.8	10.0	9.2*

BEAR RIVER

Emigrant Summit	11G6	7350	2/2	81	29.4	13.5	--
Emigration Canyon	11G7	6500	2/2	34	11.0	6.6	--

Montpelier Creek

Giveout	11G16	6840	2/1	44	14.8	7.8	--
Little Beaver	11G20	6970	2/1	53	17.7	10.5	--
Montpelier Creek	11G18	6570	1/28	40	10.8	4.5	--
Whiskey Flat	11G21	6985	2/1	39	13.0	6.1	--

Mink Creek

Christensen Ranch	11G11	5600	2/3	24	7.5	5.9	6.4*
Dry Basin (A)	11G14	7900		Delayed		16.0	--
Horseshoe Basin (A)	11G15	8000		Delayed		14.0	--
Liberty Spring	11G13	8600		Delayed		19.4	--
Strawberry Creek	11G9	5800	2/3	35	11.2	7.3	7.7*
Strawberry Mink Divide	11G10	6800	2/3	65	24.4	12.0	13.5*

Cub River

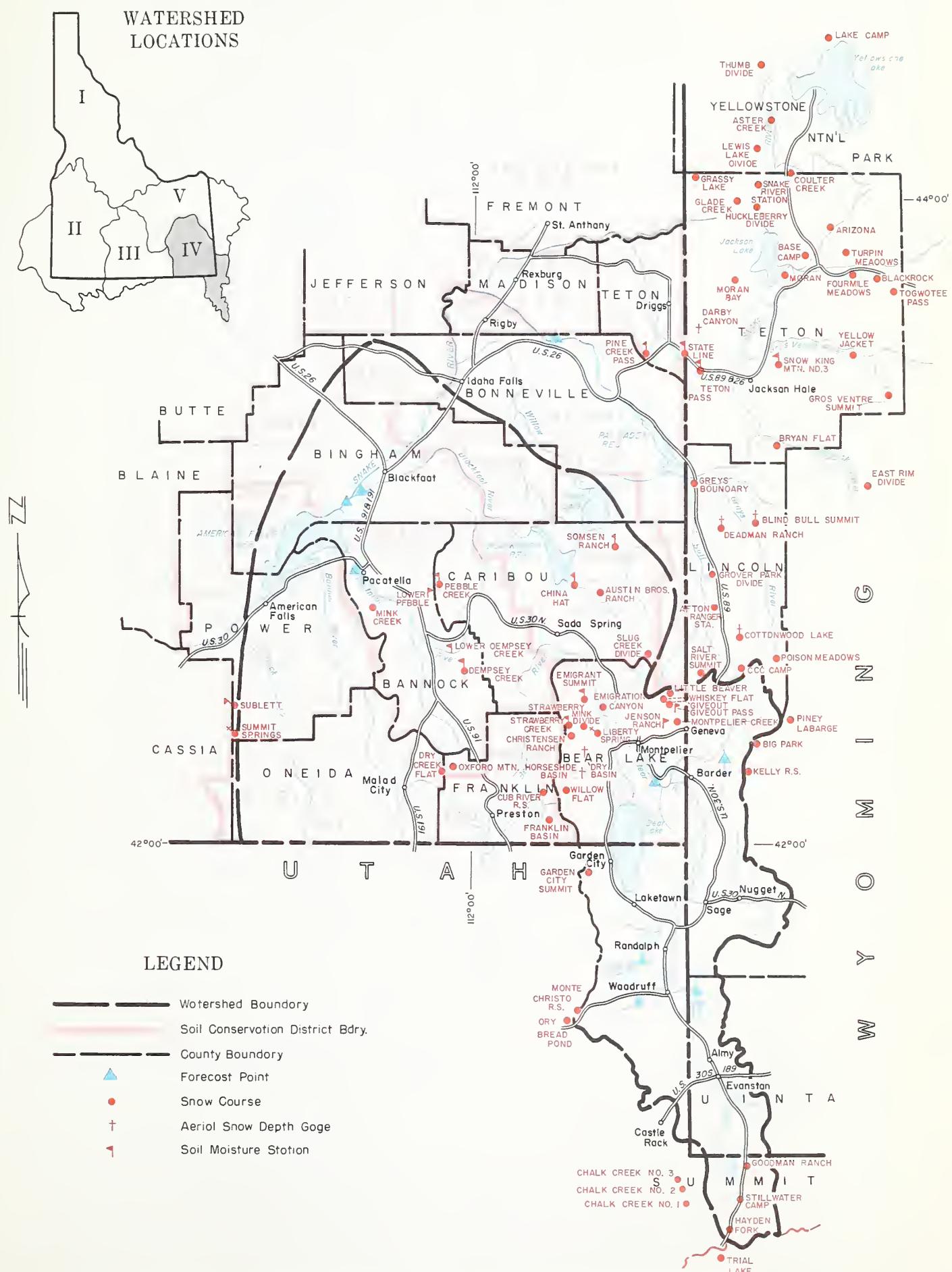
Cub River Rgr. Sta.	11G12	5400	2/2	21	6.6	6.6	6.5*
Willow Flat	11G4	6100	2/2	42	15.4	10.4	9.7*

MALAD RIVER

Dry Creek Flat	12G4	6350	1/28	31	8.0	5.7	4.7*
Oxford Mountain	12G3	6800	1/28	46	12.0	--	6.2*

UPPER SNAKE, BLACKFOOT, PORTNEUF, BEAR, MALAD WATERSHEDS

25 0 25 50
SCALE IN MILES

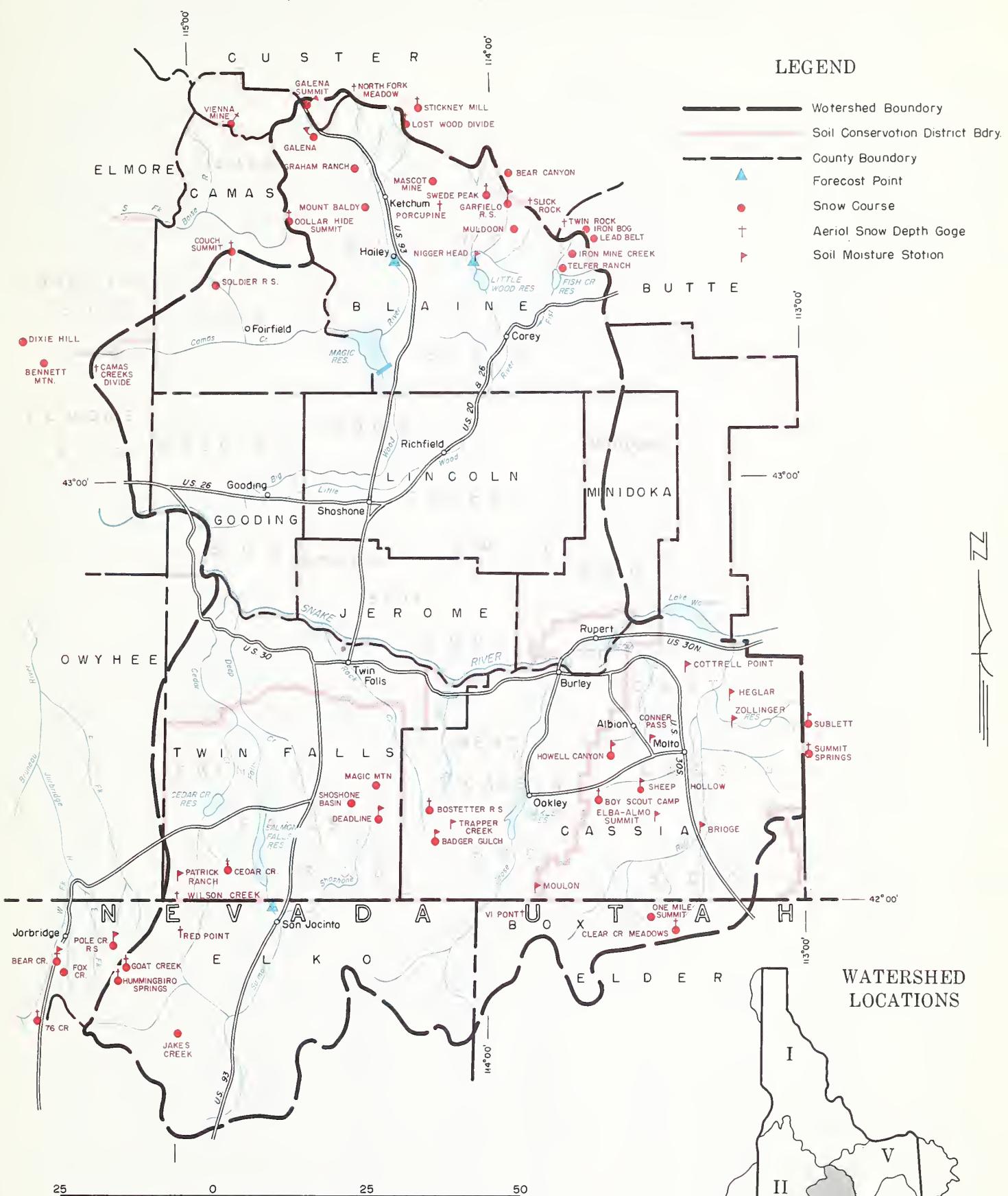


INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. LAT.	TWP. OR ANO	RGE. LONG.	ELEV.	NO.	STATE	NAME	SEC. LAT.	TWP. OR ANO	RGE. LONG.	ELEV.							
SNAKE RIVER - WYOMING																				
10G4	WY	Afton Ranger Station	30	32N	118W	6200	12G5M	I	Dempsey Creek	17	10S	38E	6280							
10F1	WY	Arizona	3	46N	115W	6850	12G7m	I	Lower Dempsey	5	10S	38E	5210							
10E8	WY	Aster Creek	44°17'	110°38'	7700	12G6m	I	Lower Pebble	7	8S	38E	5800								
10F2	WY	Base Camp	20	46N	113W	6900	12G1	I	Mink Creek	33	7S	34E	6300							
10F7	WY	Blackrock	4	44N	111W	8600	12G2M	I	Pebble Creek	34	7S	37E	6550							
10G2A	WY	Blind Bull	6	34N	115W	8750	PORTNEUF RIVER													
10F14	WY	Bryan Flat	9	38N	115W	6250	BEAR RIVER													
10E3	WY	Canyon	44°44'	110°30'	7750	10G11	Wy	Big Park	7	27N	117W	8700								
10G7	WY	CCC Camp	9	29N	118W	7500	11G11	I	Christensen Ranch	27	13S	41E	5600							
10G5A	WY	Cottonwood Lake	25	31N	118W	7500	11G12	I	Cub River Ranger Station	5	15S	41E	5400							
10E10	WY	Coulter Creek	44°09'	110°33'	7600	11G14a	I	Dry Basin	30	13S	42E	7900								
10G1A	WY	Deadman Ranch	26	34N	116W	6534	11H13MP	U	Dry Bread Pond	19	8N	4E	8230							
10F17	WY	East Rim Divide	32	37N	111W	7950	11G6M	I	Emigrant Summit	21	12S	42E	7350							
10F6	WY	Four Mile Meadows	35	45N	112W	7770	11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500							
10E13	WY	Glade Creek	12	48N	116W	7200	11G8M	I	Franklin Basin	1	16S	41E	8000							
10F18	WY	Greys Boundary	33	37N	118W	5800	11H7P	U	Garden City Summit	35	14N	4E	7600							
10F19	WY	Gros Ventre Summit	36	40N	111W	8750	10J6	U	Goodman Ranch	19	3N	10E	7900							
10G3	WY	Grover Park Divide	27	33N	118W	7500	10J7	U	Hayden Fork	1	1S	9E	9300							
10E14	WY	Huckleberry Divide	32	48N	115W	7300	11G15a	I	Horseshoe Basin	31	13S	42E	8000							
10E4	WY	Lake Camp	44°34'	110°24'	7850	10G12	Wy	Kelly Ranger Station	13	26N	118W	8200								
10E9	WY	Lewis Lake Divide	44°13'	110°40'	7900	11G13A	I	Liberty Spring	7	13S	42E	8600								
10F4	WY	Moran	8 & 17	45N	114W	6800	11H12P	U	Monte Cristo R. S.	3	8N	4E	8960							
10E3	WY	Moran Bay	14	45N	116W	6800	10G10	W	Piney LaBarge x	19	29N	124W	8820							
10E2	WY	Norris Basin	44°44'	110°42'	7500	10J17P	U	Stillwater Camp	32	2N	10E	8550								
10G6	WY	Poison Meadows	29	30N	116W	8500	11G10	I	Strawberry Mink Divide	14	13S	41E	6800							
10G8	WY	Salt River Summit	32	29N	118W	7900	11G9M	I	Strawberry Creek	9	13S	41E	5800							
10E12	WY	Snake River Station	9	48N	115W	6780	11G4P	I	Willow Flat	2	15S	41E	6100							
10F20	WY	Snow King Mountain #3	4	40N	117W	7600	MALAD RIVER													
10E5	WY	Sylvan Pass	12	52N	110W	7100	12G4	I	Dry Creek Flat	31	13S	37E	6350							
10E7	WY	Thumb Divide	44°22'	110°35'	7900	12G3	I	Oxford Mountain	32	13S	37E	6800								
10F9	WY	Togwotee Pass	29	44N	110W	9600	MONTPELIER CREEK													
10F5	WY	Turpin Meadows	14	45N	112W	6930	11G16	I	Giveout	35	11S	45E	6840							
10F10	WY	Yellowjacket	33	42N	112W	7675	11G17m	I	Giveout Pass	2	12S	45E	7025							
TETON RIVER																				
10F21a	WY	Darby Canyon	28	43N	118W	8250	11G19m	I	Jenson Ranch	15	12S	45E	6580							
11F2M	I	Fine Creek Pass	24	3N	44E	6750	11G20	I	Little Beaver	26	11S	45E	6970							
11F1M	I	State Line	32	3N	46E	6400	11G18	I	Montpelier Creek	22	12S	45E	6570							
10F13M	WY	Teton Pass	24	41N	118W	8500	11G21	I	Whiskey Flat	26	11S	45E	6985							
BLACKFOOT RIVER																				
11G3	I	Austin Brothers Ranch	28	7S	43E	6450	LEGEND													
11G2M	I	China Hat	17	7S	42E	6300	Numbering System (example)													
11G5	I	Slug Creek Divide	15	10S	44E	7225	10J7		SNOW COURSE ONLY.											
11G1M	I	Somsen Ranch	25	5S	43E	7000	10J7P		SNOW COURSE AND PRECIPITATION GAGE.											

- 10J7 SNOW COURSE ONLY.
- 10J7P SNOW COURSE AND PRECIPITATION GAGE.
- 10J7M SNOW COURSE AND SOIL MOISTURE STATION.
- 10J7A SNOW COURSE AND AERIAL MARKER.
- 10J7MA SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
- 10J7MP SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
- 10J7 m SOIL MOISTURE STATION ONLY.
- 10J7 a AERIAL MARKER ONLY.
- 10J7 p STORAGE PRECIPITATION GAGE ONLY.

SNAKE RIVER, BIG WOOD, LITTLE WOOD, RAFT, GOOSE CREEK, SALMON FALLS CREEK WATERSHEDS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
				OR LAT.	LONG.	

RAFT RIVER

13G2A	I	Boy Scout Camp	12	14S	23E	7600
13G11m	I	Bridge	7	15S	27E	4750
13H2A	U	Clear Creek Meadows	26	14N	14W	9050
13G6	I	Conner Pass	35	12S	25E	5700
13G7m	I	Cottrell Point	24	10S	25E	4490
13G10m	I	Elba-Almo Summit	29	14S	25E	5690
13G8m	I	Heglar	19	11S	28E	4590
13G1M	I	Howell Canyon	2	13S	24E	8000
13G12m	I	Moulton	27	16S	23E	5950
13H1	U	One Mile Summit	19	14N	14W	7330
13G5M	I	Sheep Hollow	4	14S	24E	6200
13G3M	I	Sublett	8	12S	30E	6000
13G4A	I	Summit Springs	15	13S	30E	8500
13G9m	I	Zollinger	2	13S	28E	5000

GOOSE - TRAPPER CREEK

14G3M	I	Badger Gulch	24	15S	19E	6660
14G1A	I	Bostetter Ranger Station	35	14S	19E	7500
14G7m	I	Trapper Creek	2	15S	20E	5300
13H3a	U	Vi Font	17	14N	17W	7670

SALMON FALLS CR. - BRUNEAU RIVER

15H1MA	N	Bear Creek	31	46N	58E	7800
14G5A	I	Cedar Creek	25	15S	13E	7000
14G4M	I	Deadline	25	14S	18E	6900
15H2	N	Fox Creek	33	46N	58E	6800
15H13A	N	Goat Creek	31	46N	60E	8800
15H15A	N	Hummingbird Springs	6	45N	60E	8945
14H1	N	Jakes Creek	6	42N	62E	7000
14G2	I	Magic Mountain	14	14S	18E	6700
15G1m	I	Patrick Ranch	23	15S	12E	5720
15H14M	N	Pole Creek Ranger Station	13	46N	59E	8330
15H18a	N	Red Point	15	47N	61E	7940
15H3A	N	Seventy Six Creek	6	44N	58E	7100
14G6	I	Shoshone Basin	24	14S	17E	5740
15G2a	I	Wilson Creek	24	16S	12E	7500

BIG WOOD RIVER

14F8A	I	Dollar Hide Summit	16	3N	15E	8620
14F1M	I	Galena	3	6N	15E	7300
14F12M	I	Galena Summit	33	7N	15E	8795
14F5	I	Graham Ranch	10	5N	17E	6200
14F7	I	Mascot Mine	8	4N	20E	7900
14F9	I	Mount Baldy	26	4N	17E	9000
14F11	I	Soldier Ranger Station	19	2N	14E	6100

LITTLE WOOD RIVER

13F4M	I	Garfield Ranger Station	11	3N	21E	6554
13F10	I	Iron Mine Creek	32	3N	23E	6370
13F5	I	Muldoon	25	3N	21E	6300
14F13m	I	Niggerhead	26	2N	20E	5450
14F14a	I	Porcupine	30	4N	20E	8350
13F9A	I	Swede Peak	4	3N	21E	7500
13F6	I	Telfer Ranch	12	2N	22E	6000

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7 m	SOIL MOISTURE STATION ONLY.
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches) LAST YEAR	AVERAGE ^b

BIG WOOD RIVER

Camas Creeks Div. (A)	15F9	5720	2/1	27	8.9	10.7	--
#Couch Summit (A)	14F10	6950	1/31	61	19.2	13.6	13.1*
Dollarhide Summit (A)	14F8	8620	1/31	107	36.3	15.2	17.6*
Galena	14F1	7500	1/27	94	29.8	13.5	12.8*
Galena Summit	14F12	8795	1/27	102	32.0	16.6	15.1*
Graham Ranch	14F5	6200	1/28	67	22.2	10.4	9.2
#Lost Wood Divide (A)	14F3	8750	1/31	96	30.1	16.3	--
Mount Baldy	14F9	9000	1/28	94	31.2	13.8	13.6*
Soldier Rgr. Sta.	14F11	6100	2/2	45	14.6	6.5	7.9*

Little Wood River - Fish Creek

Garfield Rgr. Sta.	13F4	6554	1/26	58	17.5	6.8	7.0*
Muldoon	13F5	6300	1/26	43	12.4	5.1	5.5*
Porcupine (A)	14F14	8350	1/31	83	26.1	13.3	--
Swede Peak (A)	13F9	7500	1/31	85	26.9	11.0	7.2*

RAFT RIVER

Boy Scout Camp (A)	13G2	7600	2/1	68	26.1	9.2	--
Clear Creek Mdws. (A)	13H2	9050	2/1	70	26.9	17.5	--
Howell Canyon	13G1	8000	2/1	77	31.0	16.1	16.8*
Summit Springs (A)	13G4	8500	2/1	24	9.2	8.3	--

GOOSE CREEK

Badger Gulch	14G3	6660	1/28	40	11.0	7.7	--
Bostetter R. S. (A)	14G1	7500	2/1	59	22.7	13.9	10.9*
Vi Pont (A)	13H3	7670	2/1	43	16.5	10.7	--

SALMON FALLS CREEK

#Bear Creek (A)	15H1	7800	2/1	55	21.1	11.2	11.7*
Cedar Creek (A)	14G5	7000	2/1	22	8.4	9.6	6.8*
Deadline	14G4	6900	2/2	67	25.7	17.4	14.5*
Goat Creek (A)	15H13	8800	2/1	37	14.2	9.8	10.0*
#Hummingbird Spgs. (A)	15H15	8945	2/1	90	27.3	13.3	10.7*
Magic Mountain	14G2	6700	1/28	66	20.0	14.2	11.8*
#Pole Creek R. S.	15H14	8330	1/26	54	16.4	13.3	10.5*
Red Point (A)	15H18	7940	2/1	18	6.9	11.2	--
Shoshone Basin	14G6	5740	1/27	13	2.6	6.4	3.9*
Wilson Creek (A)	15G2	7500	2/1	32	12.3	10.7	--

6
SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	AVERAGE ^b

BOISE RIVER

Atlanta Summit (A)	15F4	7500	1/31	144	50.1	20.3	20.9*
Bad Bear	15F2	5500	1/29	77	19.9	12.3	--
Bennett Mountain	15F7	6650	1/31	61	20.0	13.8	--
#Bogus Basin	16F2	6120	1/30	85	28.2	13.6	15.1
Bogus Basin Road	16F4	5360	1/30	25	8.6	11.0	2.5*
#Camas Creeks Div. (A)	15F9	5720	2/1	27	8.9	10.7	--
Couch Summit (A)	14F10	6950	1/31	61	19.2	13.6	13.1*
Danskin (A)	15F10	5650	2/1	51	16.7	11.7	--
Dixie Hill	15F8	5230	1/31	17	6.1	--	--
#Dollarhide Smt. (A)	14F8	8620	1/31	107	36.3	15.2	17.6*
Jackson Peak (A)	15E9	7000	2/1	117	40.7	24.0	20.5*
Little Camas Flat (A)	15F12	4950	2/1	13	4.7	8.6	--
Long Tom (A)	15F13	4550	2/1	2	0.7	6.2	--
Moores Creek Summit	15F1	6100	2/2	113	38.3	23.0	20.9
Prairie	15F6	5600	1/29	37	12.1	7.1	4.6*
Road Creek (A)	15F3	6800	1/31	39	13.4	8.4	7.8*
#Soldier Rgr. Sta.	14F11	6100	2/2	45	14.6	6.5	7.9*
Trinity Mountain (A)	15F5	7400	1/31	155	53.9	24.0	29.1*
Vienna Mine (A)	14F4	8900	1/31	128	40.2	19.9	--
Willow Creek Cabin (A)	15F11	4710	2/1	6	2.2	6.2	--

PAYETTE RIVER

#Big Creek Summit	15E2	6600	2/1	121	42.1	21.5	23.9*
Bogus Basin	16F2	6120	1/30	85	28.2	13.6	15.1
Cozy Cove	15E8	5900	1/28	66	19.0	11.9	11.0
Crawford Rgr. Sta.	15E3	4800	2/1	31	10.2	6.6	5.5*
Deadwood Airstrip	15E10	5440	1/26	62	18.2	9.8	9.6*
Deadwood Dam	15E7	5500	1/28	70	21.1	11.1	11.7
Deadwood Summit (A)	15E4	7000	1/31	168	58.5	27.4	34.8*
Greenfield Flat (A)	16E7	7370	1/31	145	50.5	23.4	--
High Valley Summit	16E4	5170	2/3	43	14.4	--	--
#Jackson Peak (A)	15E9	7000	2/1	117	40.7	24.0	20.5*
Rock Flat Summit	16E1	5200	1/27	74	19.6	12.4	12.6
Silver Creek Ridge (A)	15E5	5700	2/1	69	20.8	14.0	--
Squaw Meadow (A)	15D2	5800	1/31	123	42.8	21.7	25.1*
Tripod Summit	16E3	5200	2/3	64	21.0	14.8	--

WEISER RIVER

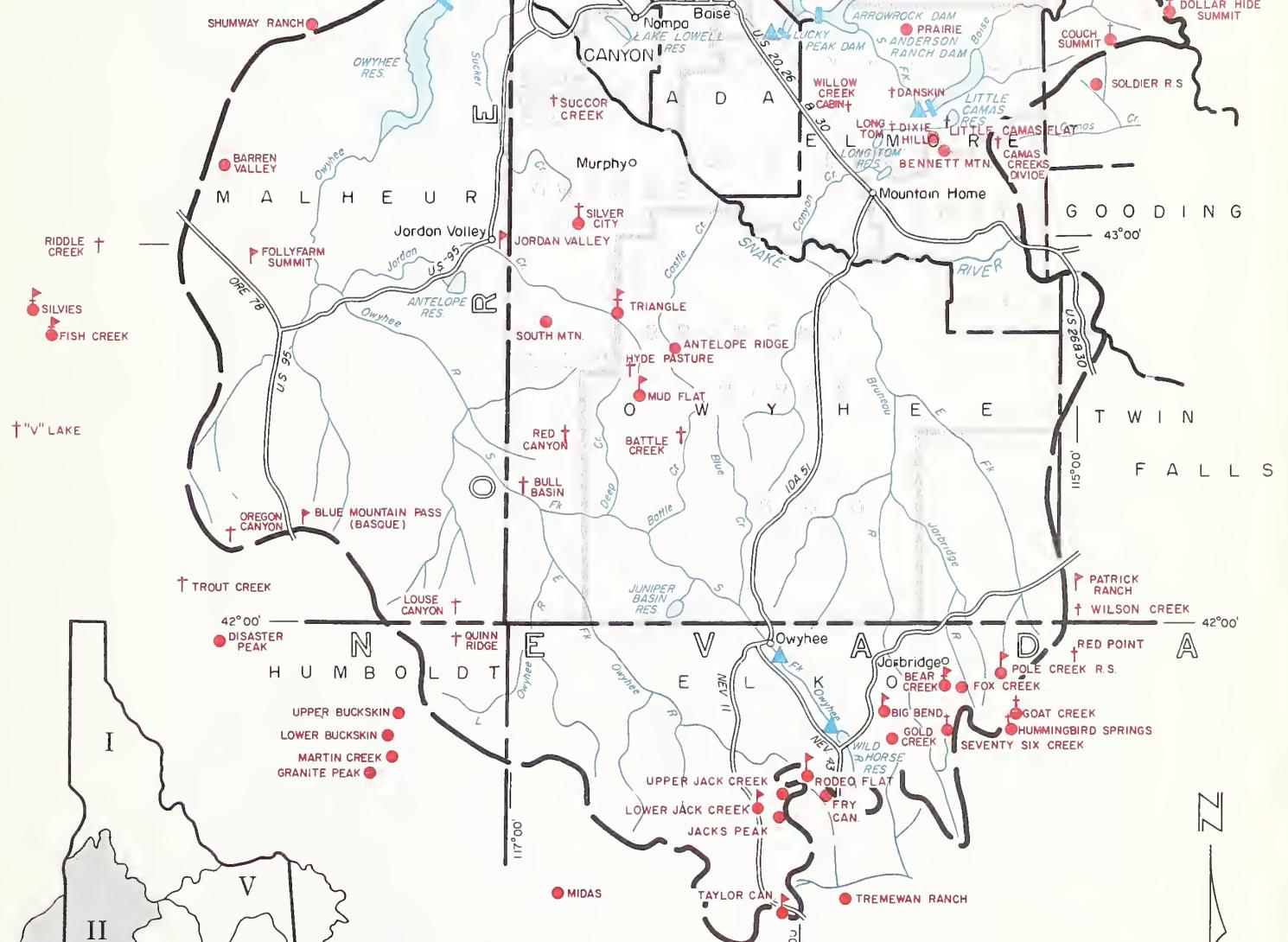
Boulder Creek	16D1	5500	1/28	103	29.3	14.4	--
Mica Ridge (A)	16E6	6800	1/31	114	39.7	22.9	--
Squaw Flat (A)	16E5	6230	1/31	89	31.0	12.6	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated.

BOISE, PAYETTE, WEISER, BRUNEAU, Owyhee WATERSHEDS

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aeriel Snow Depth Goge
- Soil Moisture Station



WATERSHED LOCATIONS

INDEX to SNOW COURSES

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	AVERAGE b
						LAST YEAR	

BRUNEAU RIVER

Bear Creek (A)	15H1	7800	2/1	55	21.1	11.2	11.7*
Hummingbird Spgs. (A)	15H15	8945	2/1	90	27.3	13.3	10.7*
Pole Creek Rgr. Sta.	15H14	8330	1/26	54	16.4	13.3	10.5*
#Seventy-six Creek(A)	15H3	7100	2/1	27	8.1	6.8	7.4*

OWYHEE RIVER

Antelope Ridge	16G6	5900	1/26	19	3.8	9.7	--
Battle Creek (A)	16G9	5700	2/1	6	2.4	5.7	--
#Bear Creek (A)	15H1	7800	2/1	55	21.1	11.2	11.7*
Bull Basin (A)	16G10	5600	2/1	0	0.0	2.4	--
Hyde Pasture	16G5	5800	2/1	12	4.8	7.8	--
Mud Flat	16G7	5500	1/26	22	4.6	7.0	--
Red Canyon (A)	16G11	6650	2/1	15	6.0	7.3	--
#Seventy-six Creek(A)	15H3	7100	2/1	27	8.1	6.8	7.4*
Silver City (A)	16F3	6400	2/1	46	18.4	11.8	9.7*
Silver City	16F3	6400	1/21	36	11.7	--	--
South Mountain	16G1	6340	2/2	31	12.4	10.2	7.4
Succor Creek (A)	16F6	6100	2/1	15	6.0	6.5	--
Triangle (A)	16G4	5150	2/1	2	0.8	2.2	--

APPENDIX

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	AVERAGE
						LAST YEAR	b

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated.

Agencies Assisting with Snow Surveys, etc.

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

States:

Idaho State Reclamation Engineer
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers
U. S. Department of Agriculture
Forest Service
Agricultural Research Service
U. S. Department of Commerce
Weather Bureau
U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
Indian Service
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for
snow survey reports. Their cooperation is gratefully acknowledged.*

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with the Snow Survey"*